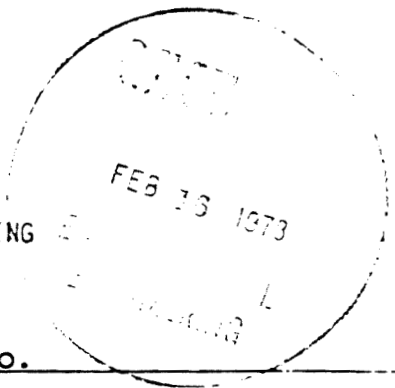




NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
1200 Missouri Avenue
Bismarck, North Dakota 58505

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1977



1. Name of Firm or Organization: Montana-Dakota Utilities Co.
2. Plant Location: Mandan, North Dakota
3. Permit to Operate Number: F76001
4. Source Unit Number (from Permit to Operate): 2
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>406,145 Tons</u> (Specify Units) Delivered Cost of fuel <u>\$6.09/Ton</u> (\$/Unit Quantity)	Type <u>N.A.</u> Quantity per year _____ (Specify Units) Delivered Cost of fuel _____ (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. 11.00 Min. 4.95 Avg. 7.38		
PERCENT SULFUR Max. 0.98 Min. 0.47 Avg. 0.68		
BTU PER UNIT Max. 7390 Min. 6730 Avg. 6958		

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>N.A.</u>		Type <u>Lignite</u>	Type <u>N.A.</u>
	Units <u>Tons</u>	Units _____		Units <u>Tons</u>	Units _____
Jan.	41,277		July	39,135	
Feb.	37,355		Aug.	33,698	
March	38,246		Sept.	36,360	
April	36,154		Oct.	16,617	
May	14,284		Nov.	38,239	
June	37,356		Dec.	37,424	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>N.A.</u>
	Units <u>Tons</u>	Units _____
Maximum	68.5	
Average	51.6	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season July-December
(Specify Months of Year)

Total Hours Per Year 7871.3

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	30.6	120.4
Sulfur Dioxide	Unknown	-
Nitrogen Oxides	Unknown	-
Other (Specify)	-	-

Basis For Quantities Listed Above:

Particulate data is based on tests run in September, 1976. No recent sulfur dioxide data exists that is accurate for reporting purposes. No tests have been run for nitrogen oxides.

10. Name of Person Submitting Report (Print or Type) Earl F. Backhaus

Title Ass't. Manager, Power Production Phone (701) 224-3000

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed)

Earl F. Backhaus Date Feb. 15, 1978